

Due Wednesday, October 24

The next phase of the project is to obtain the required components. A parts list is provided below. For convenience, the Digi-Key part number is provided as well, but you are welcome to obtain parts from other vendors if a better price can be found. Equivalent parts can be substituted, but it is up to you to verify that they are functionally equivalent.

It would be prudent to purchase a few extra components in case some are damaged during the circuit construction. I would buy at least two of everything except for the enclosure, switches, and connectors. (Those components are fairly expensive and unlikely to break.) The circuit also requires a non-precision 1 k Ω resistor, but this can be obtained from the lab supply cabinet.

One more component that will be required is a prototyping board, to which the components can be soldered. These will be available through the department stockroom, so you don't need to order them.

The parts should all be in your possession by the due date. Also by that date, you will need to test the operation of your chip by setting it up on your ELVIS breadboard.

Part	Manufacturer	Mfc Part Number	Digikey P/N
Instrumentation Amplifier	Analog Devices	AD627ANZ	AD627ANZ
Enclosure	Hammond	1455K1201	HM972
SP3T switch	NKK	M2024SS1G01-RO	360-1856
DPDT switch	NKK	M2022SS1W01-RO	360-1843
SPST switch (momentary)	C&K	8531MZQE2	CKN4020
DIN connector	CUI	SD-50LS	CP-1235
BNC (standard)	TE	227755-1	A30563
BNC (isolated)	TE	5227726-2	A32340
Banana jack (red)	Emerson	108-0902-001	J151
Banana jack (black)	Emerson	108-0903-001	J152
Banana jack (green)	Emerson	108-0904-001	J153
9V battery holder (x2)	MPD	BH9V-W	BH9V-W
LED	Avago	HLMP-1790-A0002	516-1792-1
13 V zener	Fairchild	1N4743ATR	1N4743AFSCT
200 Ω , 1% resistor	Vishay/BC	SFR25 series	PPC200YCT
2100 Ω , 1% resistor	Vishay/BC	SFR25 series	PPC2.10KYCT
40.2k Ω , 1% resistor	Vishay/BC	SFR25 series	PPC40.2KYCT
1 μ F capacitor (x2)	Kemet	T350A105K025AT	399-3528
IC socket	TE	2-641260-1	A24807